

A nighttime photograph of a modern, multi-story building with a prominent circular architectural feature. The building is illuminated from within, and the sky is a deep blue with some clouds. In the foreground, there is a paved walkway with several small, cylindrical light fixtures. Trees and other buildings are visible in the background.

Air Force Center for Environmental Excellence Fiscal Year 2000 Annual Report

**Brooks Air Force Base
San Antonio, Texas**



AFCEE FY 2000 Annual Report

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Gary M. Erickson, P.E.

A note from the director:

Even though it may sound redundant I'm going to repeat what I said in the last annual report because it still holds true for 2000: AFCEE had an outstanding and productive fiscal year! That would not have been possible, of course, without the hard work of everyone at the Center. A thanks to all the AFCEE staff for all you do to keep the organization humming along at peak efficiency throughout the year.

Thanks as well to our valuable and cherished customers who also are part of the AFCEE team. Without them we would not exist as an organization in the first place. Not only do they entrust us with their programs, they also share their ideas and goals with us, and sometimes push us ahead – something we appreciate very much. We are striving to continue to meet their requirements in the most effective and expedient ways possible.

The AFCEE team, however, would be an absolute failure without the contractors who ably assist us in our many activities. I refer not only to the people who work projects for us throughout the Air Force, but also those men and women who help us in our day-to-day operations here at the Center. Further, it includes the folks who keep our computer systems up and running and do the other hundreds of technical activities that are so essential to a business enterprise like AFCEE.

The bottom line is that without this triad of AFCEE people, customers, and contractors there would not be much to report for FY 2000. But as you can see by the pages that follow, that clearly is not the case. What a year!

Please take time to read this report and let us know if there is anything that we can do to make this a better product. And again, thanks to the entire AFCEE team for making FY 2000 such an immensely productive year.

A handwritten signature in black ink, appearing to read 'Gary M. Erickson'.

Gary M. Erickson, P.E.

This is AFCEE

The Air Force Center for Environmental Excellence, headquartered at Brooks AFB, Texas, is a field-operating agency of the Air Force Civil Engineer.

AFCEE is the Air Force's premier center of expertise and service center, offering commanders a full range of technical and professional services in environmental restoration, pollution prevention, environmental compliance, natural and cultural resources conservation, facility design and construction management, and comprehensive planning.

The Center also maintains three Regional Environmental Offices, located in Atlanta, Dallas, and San Francisco. These REOs advocate Air Force and Department of Defense interests before federal, state, and local regulatory agencies to facilitate environmental compliance and management throughout the various regions of our country.

A civilian director, a member of the Senior Executive Service, heads AFCEE. The director is assisted by an executive director, an Air Force colonel who serves also as the commander of the Center's military personnel.

The AFCEE-wide staff consists of 369 authorized civilian personnel and 50 military members. AFCEE relies also on contractors who provide technical assistance in computer operations and other specialized areas. The majority of the agency's multi-skilled and technically competent people have degrees in engineering and the sciences, including such diverse fields as architecture, hydrogeology, wildlife biology, and chemistry. Many of them also are professionally registered or certified in their respective disciplines.

In addition to its in-house professional and technical staff, AFCEE has an entire slate of contractors at its disposal. These valuable members of the AFCEE team include some of the nation's most capable and respected firms. The Center's multibillion dollar contract capacity covers the entire spectrum of environmental and construction management services.

As a whole, the Center forms a comprehensive team dedicated to providing a full range of services to Air Force commanders and other DOD customers.



AFCEE FY 2000 Honor Roll

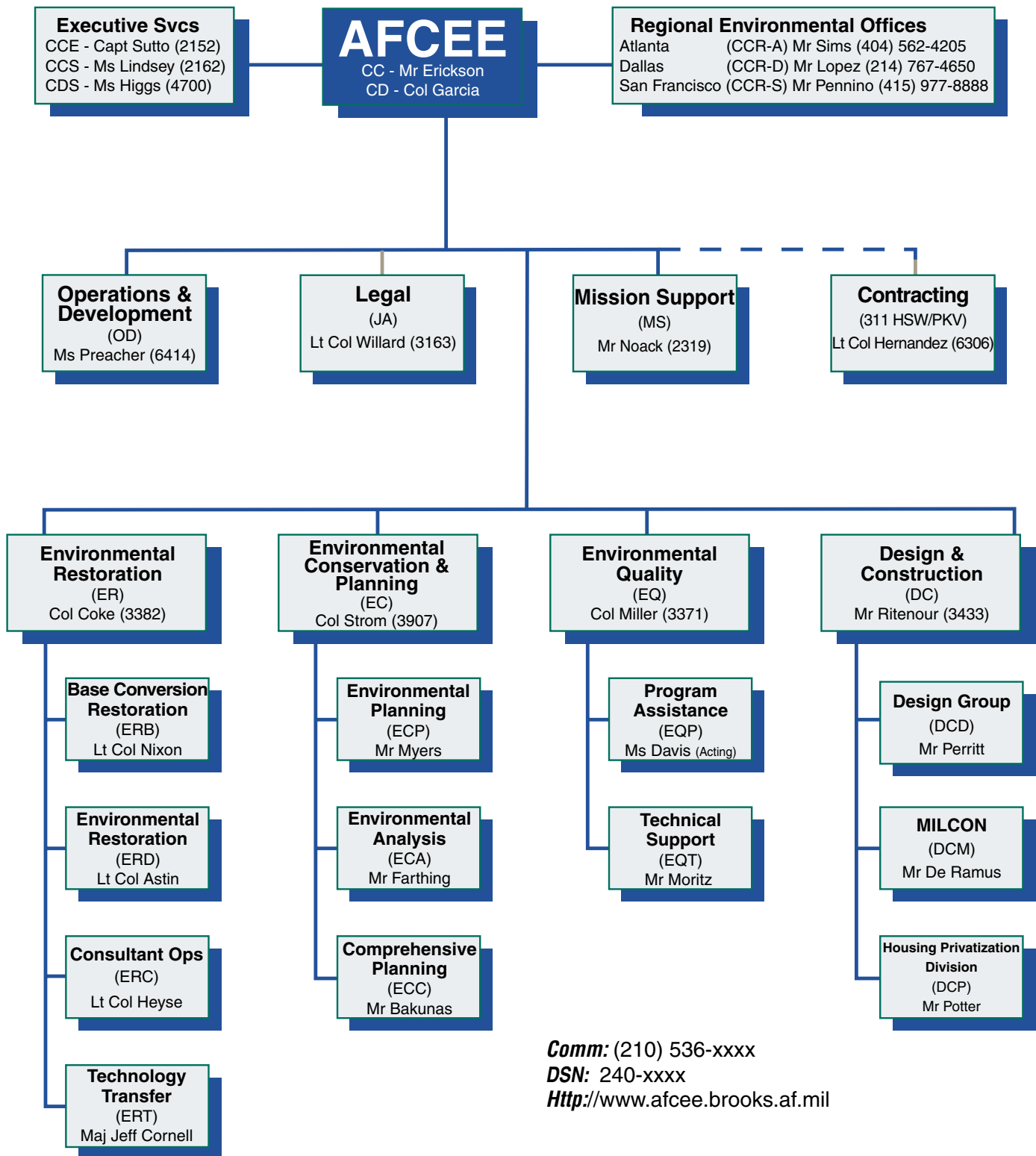
Mr. William Kivela of the Environmental Quality Directorate was awarded a 2000 White House Closing the Circle Award in the Executive Order 12856 Individual Challenge category for his management of the Air Force-Environmental Management Information System program. The award recognizes persons who have demonstrated outstanding leadership in implementing the executive order's pollution prevention provisions.

The National Endowment for the Arts honored **Mr. Don Ritenour**, director of the Design and Construction Directorate, **Mr. Mikeual Perritt**, Design Group Division chief, and **Mr. David Duncan** of the Design Group Division, with a Presidential Design Award 2000 Federal Design Achievement Award for their management of the Air Force Design Awards Program. The AFCEE-run program was one of 35 winners among more than 300 entries in the Presidential Design 2000 Awards.

Mr. J. Walter Epply III, then director of AFCEE's Financial Management and Mission Support Directorate, obtained the designation of Certified Defense Financial Manager after passing the rigorous CDFM examination. The test provides objective evidence that the candidate has in-depth knowledge of Department of Defense financial management.

Ms. Mary Urey and Ms. Carol Singleton, two Environmental Contracting Division professionals, were designated as Fellows by the National Contract Management Association. They are the ninth and tenth San Antonians and the first area women to receive this distinction.

The Fellows Award, created in 1966, is the third highest honor bestowed by the NCMA, the worldwide professional association for contract managers in government service. It recognizes individuals who have used their talent and experience to benefit the contracting field.



Environmental Restoration Directorate (ER)

(Tel: 210.536.3383/DSN 240.3383)

The Environmental Restoration Directorate executes environmental cleanup activities, including remedial investigations, remedial designs, remedial action, and long term maintenance operations and monitoring for active and designated closure/conversion bases. In connection with these activities, ER does technical oversight of environmental programs, performs laboratory quality assurance assessments, reviews documents, and assists in selecting remediation technologies. Additionally, the organization serves as the focal point for technology evaluation, application, and transfer from laboratory to the field. ER is comprised of the Base Conversion Restoration, Consultant Operations, Environmental Restoration, and Technology Transfer divisions.

Base Conversion Restoration Division (ERB)

(Tel: 210.536.5255/DSN 240.5255)

Last Remediation in Place Progress

The base conversion process continued its progress, with two more former Air Force bases reaching last remediation-in-place in FY 2000. The installations are Loring, located in Maine, and Pease, in New Hampshire. Additionally, ERB executed another \$114 million worth of projects in FY 2000, thus helping the Air Force Base Conversion Agency (AFBCA) obtain its highest obligation rate for the third year in a row. Furthermore, with new policies in place, AFCEE exceeded AFBCA goals for expending restoration funds in the year of obligation.

Consultant Operations Division (ERC)

(Tel: 210.536.5282/DSN 240.5282)

Independent Systems Engineering and Acquisition Support

The new Advisory and Assistance Support (A&AS) contract for Independent Systems Engineering and Acquisition Support with Mitretek Systems, Inc., was awarded in May. This cost-plus-fixed-fee contract has become a candidate for streamlined and innovative contracting support through the use of what AFCEE calls Integrated Process Team (IPT) pricing. These innovations have increased customer satisfaction, produced a more responsive team, and decreased lead-time for contract task order awards.

Third-Party Sites

The Consultant Operations Division's support to third-party sites in FY 2000 doubled from last fiscal year. A third-party site is one that although located on private property is of concern to the government when there is a claim that contamination found there originated with the Air Force or Department of Defense. An AFCEE team composed of ERC third-party chief Mr. James Williams, AFCEE staff judge advocate Lt. Col. E. G. Willard, and an AFCEE contractor assist other government agencies in contesting the U.S. government's liability in cases involving environmental cleanup and compliance at third-party sites.

The team has worked on cleanup claims that are on the order of \$10 million to \$30 million per case. Some of the bigger cases in FY 2000 involved the former Air Force Plant 47 in Ohio and the Sparton Corporation Site in New Mexico. The latter is a former Department of Energy facility that produced nuclear weapon parts. The AFCEE team agreed to provide technical support at this site at the request of DOE and the Justice Department.

Program Peer Review

ERC provided Program Peer Review (PPR) support to the Air Force Base Conversion Agency (AFBCA), evaluating its installation-level environmental program strategies, current site schedules, and execution plans. In this fiscal year's review, about \$250 million in FY 2001 and close to \$1 billion in FY 2002-2007 requirements were reviewed. The benefits of the review included cross feeding of best management practices and identification of opportunities to accelerate cleanup and achieve effective site closeout.

Environmental Restoration Division (ERD) **(Tel: 210.536.5231/DSN 240.5231)**

Project Management Growth

FY 2000 was a year of growth for ERD, with project awards totaling more than \$320 million -- an increase of \$90 million from FY 1999. Much of the growth was in ERD's project management for the Defense Energy Support Center (DESC). In FY 2000 DESC work totaled \$60 million, which included \$26 million in Japan and Korea, \$7 million in Guam, \$5 million at Ascension Island, \$15 million for work at ten bases in the continental U.S., \$5 million in Alaska, and \$2 million at Lajes Field in the Azores. Two other major growth areas were the work for Pacific Air Forces (PACAF), which increased from \$24 million to \$59 million, and for United States Air Forces in Europe (USAFE), which grew from \$12 million to \$21 million. ERD's growth in FY 2000 can be attributed to continued customer satisfaction.

Keesler AFB, Mississippi

AFCEE successfully assisted Keesler in completing an Interim Stabilization Measure at Landfill 03, located on base at the Biloxi Back Bay. A sheet pile retaining wall was installed, the site was cleared of several small buildings, approximately 10,000 cubic yards of reinforced concrete rubble were segregated, and two storm water out-falls were extended beyond the site limits. The concrete was broken up and spread on site as fill and the reinforcing rods were recycled. Additionally, a sheet pile retaining wall was installed along the Back Bay side of the site.

Massachusetts Military Reservation (MMR)

The effort at MMR focused mainly on installing, operating, and maintaining ground water treatment systems. By the end of FY 2000, twelve ground water remediation systems were in place that removed chlorinated solvents and the chemical ethylene dibromide (EDB) from more than 12 million gallons of water per day. Two new ground water treatment systems were added in FY 2000. The first consisted of two extraction wells to clean two solvent plumes discharging to Johns Pond in the Town of Mashpee. The other consisted of three extraction wells and a treatment facility in the Town of Falmouth for cleanup of the Ashumet Valley solvent plume.

Other achievements:

- Closure has been achieved or is pending at seventy-one of seventy-eight source areas.
- Investigations began or continued at Chemical Spill 19 site, the solvent plumes in the Ashumet and Johns ponds areas, and the phosphorus study in Ashumet Pond. Remedial groundwater and soil treatment systems are scheduled to be in place by FY 2003.
- Citizen advisory teams continue to be the centerpiece of the community involvement program. In addition, dozens of speaking engagements, tours, fairs, and other events were conducted. This year, direct access to the administrative record was added to the MMR Web page (www.mmr.org) and the site was made easier to navigate.



Looking up at a drilling mast used to install monitoring wells at the Massachusetts Military Reservation.

Diffusion Samplers

The ERT diffusion sampler initiative was very successful in FY 2000. This device, developed by the United States Geological Survey (USGS), may be the most important technology ever introduced for reducing the costs of long-term monitoring of groundwater contamination. A diffusion sampler is a permeable polyethylene bag filled with distilled water that, when lowered into a well, "collects" samples of volatile organic compounds that may be in the water. The use of samplers at several sites reduced groundwater well sampling costs by up to 70 percent. For example, McClellan AFB, California, realized a \$1.1 million savings in FY 2000 by utilizing this technology.

Innovative remediation projects

At Travis AFB, California, vacuum dewatering, passive barrier ("iron wall") and phytoremediation (using plants to destroy contaminants) were some of the innovative technologies tested to see how well they could remove sources of contamination, contain contamination plumes, and clean up groundwater to drinking water standards.

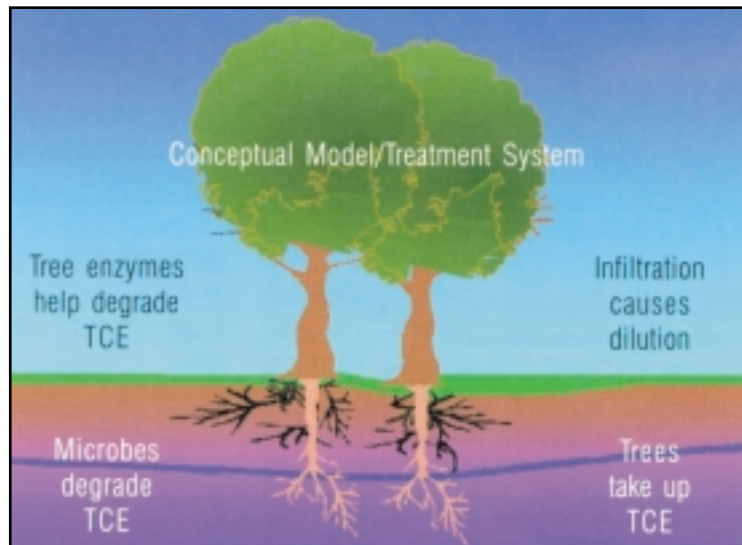
At seven other Air Force bases, phytoremediation was used to contain shallow chlorinated solvent plumes. And at Offutt AFB, Nebraska, ERT designed the first successful DOD application of an in-situ biowall barrier, consisting of an interception trench filled with bark mulch. Studies showed that the barrier reduced solvent levels in the groundwater to below drinking water standards, at a small fraction of the cost of any other technology.

ERT also injected edible oil in groundwater to promote degradation of chlorinated solvents. This cost-effective technique can be used when a plume is too deep in the ground to dig an interception trench that will form a biowall barrier. Positive results were obtained at three Air Force sites, and three additional injection sites are planned.



An example of a diffusion sampler. This new technology for measuring contamination levels may drastically reduce costs associated with long-term monitoring of contaminated sites.

Phytoremediation (use of plants to destroy contamination) was one of several procedures AFCEE used in FY 2000 for groundwater cleanup. This illustration shows how trees help remove tri-chloroethylene (TCE) from the soil.



ER's FY 2000 Program

These figures include the value of all ongoing work carried over from previous years as well as projects obligated in FY 2000. Program total for FY 2000 only was \$436,035,108.

Aeronautical Systems Center (AFMC)	\$22,946,652
Air Combat Command	40,682,323
Air Education and Training Command	49,696,558
Air Force Base Conversion Agency	570,400,000
Air Force Center for Environmental Excellence (includes MMR)	209,390,848
Air Force District Washington	2,839,398
Air Force Materiel Command	86,071,597
Air Force Space Command	88,250,754
Air Force Special Operations Command	6,043,816
Air Mobility Command	66,428,041
Pacific Air Forces	149,706,915
United States Air Forces Europe	26,244,164
Defense Energy Support Center (Defense Logistics Agency)	59,975,347
Other DOD	14,473,030
Third Party Sites	249,367
NASA	2,699,697
Other Non-DOD	3,966,624
Total	\$1,400,065,131

Environmental Quality Directorate (EQ)

(Tel: 210.536.3371/DSN 240.3371)

The Environmental Quality Directorate sustains pollution prevention and compliance programs worldwide. Through its Programs and Compliance and Pollution Prevention (P2) Services divisions, EQ identifies and implements numerous pollution prevention and compliance opportunities. Both divisions work with the major commands and individual bases to develop and execute strategic initiatives to solve Air Force pollution prevention and compliance problems.

FY 2000 saw EQ increase its presence on the Internet in a big way. New initiatives in PRO-ACT, Model Shops, the Environmental Management Information System, and the EQ Toolbox led the way in this exciting new arena. With over 825,000 "hits" (more than 80 percent of the Web site visits received by AFCEE) it's clear that this is the medium of the future and the best way to reach customers.

EQ managed 134 new projects this fiscal year, with a value of nearly \$19.5 million, ranging from Title V Air Permitting in Guam to lead and asbestos surveys in South Carolina. EQ almost doubled its ongoing program in FY 2000, providing more than \$41.6 million worth of support to 14 major commands and organizations.

Programs Division (EQP)

(Tel: 210.536.3340/DSN 240.3340)

PRO-ACT

The Air Force's premier environmental clearinghouse and research service continued to remain an EQ and Air Force success story. PRO-ACT provides real-time, on-line assistance to active-duty Air Force, Air National Guard, Air Force Reserve, civilian personnel, and Air Force contractors that hold active work orders. During FY 2000, PRO-ACT answered more than 1,218 technical inquiries in such areas as materials management, recycling, source reduction, and solid-waste minimization. Additionally, the PRO-ACT Web page received more than 520,000 visits.

In May 2000, PRO-ACT entered into a new partnering agreement with the 311th Human Systems Wing Air Force Institute for Environment, Safety, and Occupational Health (ESOH) and Risk Analysis (AFIERA). This agreement allows the agencies to support common customers throughout the Air Force by working together to provide responsive and accurate ESOH information. It will give customers comprehensive technical products and responses to technical inquiries that are fully supported and consistent with Air Force technology standards, new innovations, and policy.

AF-EMIS

Under EQ's program management and direction, the Air Force Environmental Management Information System continues to improve, and remains the most widely fielded hazardous material and hazardous waste management system in DOD. AF-EMIS is now operating at 175 Air Force, Air Force Reserve, and Air National Guard bases worldwide. Version 7.0 includes a modernized, easier-to-use hazardous waste module that includes an electronic interface with the Defense Reutilization and Marketing Service's waste-tracking system. It also allows for on-line printing of the waste manifests and labels required by regulators.

ECAMP

EQP manages the Air Force Environmental Compliance Assessment and Management Program (ECAMP), which in FY 2000 had a total program in excess of \$9 million, enabling about seventy-four ECAMP compliance audits to be conducted worldwide. Every Air Force installation with significant environmental activity must annually conduct either an internal or external compliance audit.

EQP is the Air Force representative on The Environmental Assessment and Management Team (TEAM), a group of government agencies responsible for updating and coordinating the TEAM guide and supplemental environmental protocols. These protocols are constantly updated with current environmental laws, guidance, policy, and practices to assist installations with their ECAMP audits.

EQP also tracks the root causes of all the environmental assessment audit findings. In FY 2000 the majority of findings were in the areas of waste management, hazardous materials management, and storage-tank management. Specifically, audits found that procedures were not developed, or if they were developed were not effectively implemented; and personnel did not fully understand requirements even though they had received training.

In FY2000 EQ took a large step forward by developing the Environmental Management Self-assessment tool (EMSAT99), which is an upgrade of the old EMSAT software program. The updated program incorporates ISO 14001 environmental management tenets into the self-assessment software. EMSAT99 allows users to evaluate their environmental management programs as well as assess how the programs relate to the ISO 14001 protocols. The new version of the program and user guide is available for downloading from the AFCEE/EQ Products WEB page at www.afcee.brooks.af.mil/eq/emsat/emsat.htm.

P2 Toolbox

EQ's support of the Air Force in the P2 and compliance arena has been greatly enhanced by the availability of the P2 Toolbox and the EQ Web site. It has grown from being just a static mission statement type Web page to becoming the premier AFCEE site, regularly garnering by far the most hits per year. The EQ site now has literally dozens of interactive and fully searchable program pages and resources. The P2 Toolbox is an interactive Web page within the EQ site where Air Force P2 managers can access a variety of "tools" (including guidance documents, handbooks, statements of work, and others) that will help them execute their environmental programs.

Education and Training

FY 2000 saw not one but two Pollution Prevention and Hazardous Waste Management conferences. The December 1999 and August 2000 conferences combined brought almost 5,000 visitors and more than 400 vendors to the convention center in San Antonio for the fourth and fifth annual conferences.

The 4th Annual Joint Services Pollution Prevention and Hazardous Waste Management Conference held in 1999 included the highly successful, first-of-its-kind Joint U.S./Russia Defense Environmental Conference, attended by twenty-three military officers and civilians from the Russian Federation Ministry of Defense.

The 5th annual conference was the largest to date, attracting more than 2,500 participants and 241 exhibitors. EQ facilitated a very well-received session titled "Active Range Clearance and Range Residue Recycling and Processing." The session brought together experts from DOD, industry, and the regulatory community to discuss issues such as range sustainability, clearance, recycling and disposal, the Military Munitions Rule, and technology requirements.



Capt. Chris Miller (left) and Jon Haliscak answer a visitor's questions at the AFCEE booth during the annual environmental conference.

Compliance and P2 Services Division (EQT)

(Tel: 210.536.4222/DSN 240.4222)

Affirmative Procurement

The "Guide to Green Purchasing," released by EQ in November 1999, provides one-stop guidance on the legal requirements and actions needed to establish an affirmative procurement program. Originally written in 1997, the revised version reflects changes in the program resulting from publication of Executive Order 13101. Ease of use was also a major concern, and EQ responded by creating the new guide as a Web-based tool that includes dozens of "hot-links" to supporting policies and resources. The material is also available for downloading and printing.

The guide has been downloaded sixty-three times since its release. Following each download, the customer receives a follow-up inquiry about the guide's usefulness. Response to date reveals an average customer satisfaction rating of 4.56 on a scale of 5.

EQ also provided technical support to Air Force Headquarters in developing the Air Force affirmative procurement policy memo released May 31. The memo was jointly signed by representatives of the Office of the Deputy Assistant Secretary of the Air Force (Contracting) and the Air Force Civil Engineer, indicating the shared responsibility that both organizations must take to make the affirmative procurement program a success.

Clean Air Act (CAA) Compliance Toolbox

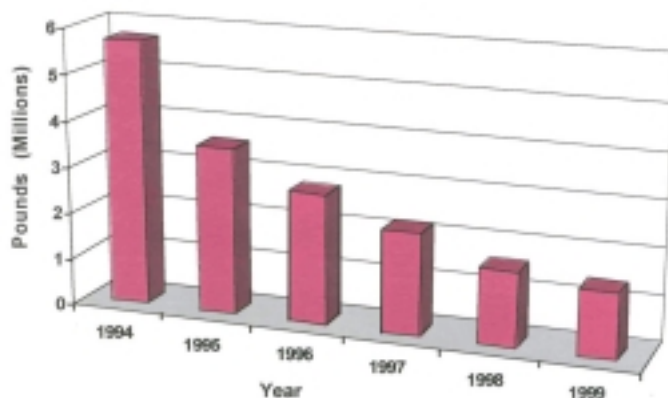
This program is designed to help base-level air quality and compliance managers remain current with the numerous and complex new provisions that directly impact Air Force installations. The CAA Toolbox is organized into five main categories: Compliance Determination, Emission Estimating, Air Quality Issues, Air Compliance News, and Budgeting.

The Compliance Determination section guides users in determining which federal rules apply to their particular Air Force emissions sources. Flowcharts help users quickly determine whether they are subject to a rule. Regulatory summaries present the intent and implications of the rule, including monitoring, reporting, and record keeping requirements. The Emission Estimating section provides the methodology for sources typically found on Air Force bases. Sample calculations and process flow diagrams illustrate the types of pollutants, contributing factors, and how to quantify emissions. Further enhancements are being worked.

Emergency Planning and Community Right-to-Know Act (EPCRA) and Toxic Release Inventory (TRI)

TRI Form R Reporting for Air Force Installations Web Course continued to be highly popular not only with Air Force people but other DOD agencies and industry as well. The course provides thorough training on Section 313 of EPCRA.

Air Force-wide TRI data showed significant improvements in hazardous materials use and hazardous waste disposal practices. The service reported a 79 percent reduction from 1994 to 1999, far surpassing the goal of 50 percent set for that five-year-period by the Environmental Protection Agency. This incredible accomplishment was due in large part to the dedication and efforts of the people involved in the pollution prevention effort at every installation. Executive Order 13148 sets an additional goal of 40 per-



The Air Force achieved a 79 percent reduction in the use of hazardous chemicals last year, far surpassing the 50 percent federal goal.

cent reduction, using a 2001 baseline. EQ will again work hard to provide Air Force customers with the technical and contract support they need to meet the new reduction target.

Ranges and Military Munitions

EQ, as a member of the AFCEE range support unit (RSU), has begun to play a major role in issues concerning active and inactive ranges. (For more information on the RSU see the "Range Support" entry on page 16). In FY 2000 the directorate completed the *Military Munitions Rule Factsheet*, which condenses the Military Munitions Rule into a more easily digestible format, and distributed it through PRO-ACT. It also completed a draft of the *Range Residue Management, A Guide for AFCEE Range Residue Disposal Project Managers*, which will serve as an internal AFCEE guide for team chiefs who are managing or will manage range residue disposal projects.



Drums filled with hazardous chemicals waiting for disposal may become a rare sight as the Air Force continues to reduce the amount of toxic materials at its installations.

Solid Waste Annual Report for Installations (SWARBase)

Field testing for SWARBase, a database system that tracks solid waste management data, is currently ongoing at five Pacific Air Forces installations. Air Staff (USAF/ILEVQ) and EQT are currently analyzing the results and will make a recommendation on the use of the system throughout the entire Air Force. The system's database contains such information as disposal sites, disposal and recycling transactions, recycling revenues, and recycling program management. Solid waste data collected throughout a fiscal year can be uploaded and exported to a base's major command, AFCEE, and Air Staff to fulfill reporting requirements and track compliance with DOD waste reduction and recycling goals.

EQ's FY 2000 Program

These figures include the value of all ongoing work carried over from previous years as well as projects obligated in FY 2000. Program total for FY 2000 only was \$19,457,469.

Air Combat Command	\$4,002,950
Air Education and Training Command	2,379,507
AFCEE	3,637,280
Air Force District Washington	428,375
Air Force Materiel Command	5,904,893
Air Force Reserve Command	658,782
Air Force Special Operations Command	244,784
Air Force Space Command	3,100,251
Air Mobility Command	6,269,309
Air National Guard	823,284
NASA	1,022,299
Pacific Air Forces	4,194,860
USAF (International support and miscellaneous)	3,413,868
United States Air Forces Europe	5,618,339

Total	\$41,698,781
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Environmental Conservation and Planning (EC)

(Tel: 210.536.3907/DSN 240.3907)

Environmental Conservation and Planning's work has direct and immediate impact on the Air Force mission. The directorate serves as the center of expertise for the Air Force Environmental Impact Analysis Process (EIAP), executes the Air Force's Natural and Cultural Resources programs, and is the focal point for the Air Force Comprehensive Planning Program.

EC is involved in issues such as environmental impact statements, baseline surveys, forestry, wildlife, archaeology, Native American consultations, transportation, air space and range management, and noise. EC also staffs planning assistance teams that travel throughout the world to help Air Force organizations solve base planning issues.

EC is made up of three divisions: Environmental Analysis, Environmental Consultant, and Environmental Planning.

Environmental Analysis Division (ECA)

(Tel: 210.536.3787/DSN 240.3787)

Environmental Impact Statements (EIS)

An EIS was completed for the proposed deactivation and dismantling of the Peacekeeper missile system based at F.E. Warren AFB, Wyoming. Removal of the system is a requirement of the Strategic Arms Reduction Treaty (START) II. If the agreement is ratified, Dec. 31, 2003, is the milestone date for removing the last warhead, with dismantling completed by December 31, 2007.

ECA completed the supplemental EIS for the joint use of the Kelly Air Force Base airfield facilities. The document examined the potential environmental impacts of the proposal for civil aviation activities in conjunction with continued military aviation operations. The proposal from the local reuse authority, the Greater Kelly Development Authority, includes a multi-modal logistics distribution center, and civil aircraft maintenance, repair, and overhaul activities.



Dale Clark addresses a public "scoping" meeting at the University of Guam. Listening to Clark's presentation are (from left) Karen Rosa of the U.S. Fish and Wildlife Service, and Heidi Hirsh, Andersen AFB representative. Such meetings are part of the Environmental Impact Statement process.

Environmental Assessments (EA)

ECA completed an EA for the conduct of low-level supersonic (LLS) over-water tests of the F-22 aircraft. The flights, which originated and concluded at Edwards AFB, California, took place off the state's coast, within the Point Mugu Sea Range and its adjacent airspace. The EA was completed in support of the Engineering and Manufacturing Development (EMD) phase of the F-22 program.

An EA was completed also for the acceptance testing of 339 F-22 aircraft to be produced over a thirteen-year period from 2001 to 2013. Acceptance test flights would take place at Dobbins Air Reserve Base, Marietta, Georgia, and in airspace located over portions of Alabama, Georgia, North Carolina, and Tennessee. The EA addressed the impact of ground and flight testing of production aircraft to ensure airworthiness before final acceptance by the Air Force.

ECA prepared an EA to support a request from Alaska Airlines, a Civil Reserve Air Fleet (CRAF) carrier, to use the McChord AFB, Washington, airfield for aircrew training. It was the first request from a CRAF carrier under 10 U.S.C. section 9513. The effects of added noise and air pollution and other relevant issues were evaluated in the EA.

Air Force National Environmental Policy Act (NEPA) Web Site

ECA launched an Internet site that features a versatile search engine, fast searches, and sixty-two documents ranging from overseas environmental reviews to full programmatic EIS. It also includes supporting studies and documents, such as an air conformity determination, biological resource studies, and an ethnography study. Topics covered include threatened and endangered species, Native American Indian issues, flood plains, historic sites, Clean Air Act, Clean Water Act, and others. The site is intended to be a tool for the base and major command Environmental Impact Analysis Program managers. It is accessible from all Air Force computer systems at: <http://www.afcee.brooks.af.mil/nepa>

Environmental Consultant Division (ECC) (Tel: 210.536.3334/DSN 240.3334)

Air Installation Compatible Use Zone (AICUZ)

During FY 2000, ECC provided a wide range of services supporting customers in executing their AICUZ programs and determining noise impacts associated with proposed aircraft-related actions. The staff conducted data collection/noise modeling efforts at nine locations.

In other AICUZ-related activities, ECC also:

- Assisted Air Staff during the Air Force Audit Agency's evaluation of AICUZ program management;
- developed and presented an environmental noise course for new bioenvironmental engineers;
- conducted an analysis of Air Force aircraft accidents; and
- with contractor assistance completed the development of a new computer program (FPView) to automate the documentation of aircraft operational data used in noise analyses.

Natural and Cultural Resources Program

ECC provides support and project management service to the major commands and installations, and technical support to AFCEE staff in functional areas related to natural and cultural resources. The division provides support in a number of ways, from direct project management to consultation to policy formulation. The diversity of the division's work is evident by these FY 2000 accomplishments:

- AFCEE's archaeologist represented the Air Force on the Department of Defense Integrated Product Team for Curation of Archaeological Collections, and on the Technical Review Team for the development of DOD's new American Indian Cultural Communications course.
- AFCEE assisted and supported the Air Force Base Conversion Agency in reaching an agreement on the treatment of historic properties at the former Plattsburgh AFB, New York, and Kelly AFB, Texas.
- ECC's technical support to Buckley AFB, Colorado, on a burrowing owl issue prevented delay of a large-scale construction project at the base. The issue concerned regulatory requirements of the Migratory Bird Treaty Act.



EC manages cultural and historical preservation projects throughout the Air Force, including studies of Cold War era drawings by crewmembers in an old missile-alert facility in North Dakota (far left) and an archeological dig for Native American artifacts in Alaska. (left) Shown at the Uivvaq site in Cape Lisburne are (from left) Air Force representative Georgeanne Reynolds, and Elise Nash (blue jacket) and Terrance Booshu of IIsagvik College, Point Hope, Alaska.

- The AFCEE botanist provided technical and contracting support to Travis AFB, California, in gathering field data on thirty-two vernal pools on the base. The project allowed Travis to meet environmental requirements before proceeding with a major family housing project. Vernal pools are ground depressions that fill with rain during the winter and develop their own ecosystems and occasionally become unique habitats for threatened or endangered species.
- ECC's management and on-site support for a dangerous cargo pad project at Pope AFB, North Carolina, was instrumental in getting construction approval from various state and federal regulators. The pad, which supports Air Force and Army (Fort Bragg) missions, is an important element in bi-service operations.

(From left) Will Summers, Air Force Materiel Command natural resources manager, Chris Koutouzakakis, a contractor, and AFCEE botanist Mary Anderson assess a soil sample to determine wetland delineation at Pope AFB, North Carolina.



Comprehensive Planning

ECC continues to provide expert leadership and counsel to the major commands and installations on Air Force comprehensive planning. A major focus has been converting a growing number of general plans to Web documents.

The division took the leadership role for managing five Planning Assistance Team studies principally focused on airfield development. These include studies at Misawa and Yokota air bases in Japan; Eglin AFB, Florida; Indian Springs Auxiliary Field, Nevada; and Cannon AFB, New Mexico.

Air Conformity

EC provides technical and contract assistance in support of the General Conformity Rule under the Clean Air Act. In addition, EC manages air compliance-related projects, such as air emissions inventories, permit applications, compliance cost, compliance through pollution prevention, stack testing, and air quality management plans. EC manages air quality projects totaling approximately \$8.5 million per year.

In FY 2000, ECC helped installations meet federal and state clean air requirements by helping them develop less complicated records systems. Information can now be easily accessed and monitored to demonstrate that installations are complying with clean air standards. A number of fact sheets and brochures have also been developed for new and experienced installation air managers. The publications cover such topics as new source review, Title V operating permitting, and the General Conformity Rule.

Reimbursable conservation program

ECC manages the Air Force's reimbursable conservation program. The division works with the major commands, installations, and the Defense Finance and Accounting Service to account for proceeds and expenditures from agricultural leases, forest product sales, and hunting and fishing programs on Air Force lands. It uses inputs from the major commands to prepare an annual conservation reimbursement budget for the redistribution of program proceeds back to installations to support their conservation programs. As required by law, 40 percent of net forestry proceeds return to state governments to support their local school and roads programs.

Summary of the FY 2000 Reimbursable Conservation Program:

<i>Account</i>	<i>Collections</i>	<i>Distributions</i>
Forest Management	\$3,445,007	\$2,838,000
Forest Reserve Account	76,814	408,000
State Entitlement Payments		286,848
Agricultural Leases	1,234,488	929,000
Fish and Wildlife Management	589,327	835,000
TOTAL	\$5,345,636	\$5,296,848

Environmental Planning Division (ECP) (Tel 210.536.3384/DSN 240.3384)

Air Base Planning

ECP assists installation and major command planners by successfully managing a variety of planning related projects, including general base comprehensive plans, area development plans, facility use surveys ("right-sizing") and airfield/airspace obstruction studies. Examples of planning projects completed in FY 2000 or currently underway include facility use studies at Tyndall AFB, Florida; Buckley AFB, Colorado; Hill AFB, Utah; Wright Patterson AFB, Ohio; and Tinker AFB, Oklahoma.

Also, general plan updates with focused area development plans were completed for Kadena Air Base, Japan; Dover AFB, Delaware; Hill AFB; Bolling AFB, D.C.; and Duluth Air National Guard Base, Minnesota.

Planning projects managed by ECP for Patrick AFB, Florida, and seven Air Mobility Command bases received national recognition from the American Planning Association.

Geographical Information System (GIS) Program

The division expanded the GIS work done in previous years in a number of ways. For example, it increased coordination with major commands through support of strategic planning efforts at Air Combat Command and Pacific Air Forces. ECP also was the host of the first GIS working group for the Civil Engineering Automation Steering Group that will develop GIS program policy.

The division continues its partnership with the CADD/GIS Technology Center and other GIS groups throughout the federal government.

Range Support

ECP currently serves as the AFCEE advocate to the Range Commanders' Council Environmental Group and coordinates several range management activities at Air Force ranges. AFCEE has expanded its role in this important area by forming a range support unit (RSU) to coordinate range planning and environmental projects.

The RSU is developing a business plan, to be completed by February 2001, and will begin training its project managers to oversee unexploded ordnance projects as that line of business increases in the future.

The unit will combine broad based in-house capability with an experienced contractor team to perform conservation, range planning, pollution prevention, unexploded ordnance detection and removal, compliance, and restoration services.

AFCEE's approach will involve close coordination with the Army Corps of Engineers, Air Force Civil Engineer Support Agency, Air Staff, the major commands, range management offices, and other key organizations involved in the operation and management of Air Force ranges.

Other Accomplishments

ECP issued its annual call for Military Traffic Management Command (MTMC) support for traffic and transportation planning studies and submitted the base/major command requests to MTMC for completion.

The division provides technical assistance to the Air Traffic System Evaluation Program (ATSEP) and serves on the Air Force Airfield Waiver Reduction integrated processing team. Significant improvements to the airfield/airspace waiver program have been made.

ECP successfully managed several environmental baseline surveys in support of the Utilities Privatization Program for a Texas regional demonstration project.

EC's FY 2000 Program

These figures include the value of all ongoing work carried over from previous years as well as projects obligated in FY 2000. Program total for FY 2000 only was \$7,687,073.

Air Combat Command	\$1,048,743
Air Education and Training Command	5,094,833
Air Force Base Conversion Agency	800,000
Air Force Materiel Command	3,236,325
Air Force Reserve Command	165,000
Air Force Space Command	3,882,009
Air Force Special Operations Command	320,000
Air Mobility Command	2,819,736
Air National Guard	305,000
Pacific Air Forces	1,975,000
United States Air Forces Europe	1,074,794
Other Customers (Including Air Staff)	4,724,106
Reimbursable Conservation Program	5,345,636
Total	30,791,183





Design and Construction (DC)

(Tel: 210.536.3433/DSN 240.3433)

Design and Construction advances installation excellence and Air Force quality of life through standards and criteria development, and execution of sound design and construction management principles. The directorate is also the Air Force's center of expertise for architecture, interior design, landscape architecture, medical facility design and construction management, design-build delivery methods of construction, and Military Family Housing (MFH) Privatization. Additionally, the directorate develops, tests, and documents new project management acquisition and construction methodologies.

Further, professional services provided by DC include design and construction agent responsibilities for MFH construction, execution and maintenance of the Air Force Family Housing Master Plan, and management of the Air Force Design Awards and Design and Construction Agent Awards programs. The directorate also is AFCEE's single-point-of-contact for Assistance Teams (ATs). The directorate pulls planning expertise from the Environmental Conservation and Planning Directorate and draws from its own experts in architecture, interior design, and landscape architecture to help the major commands and installations solve planning and design issues.

DC is composed of three divisions: Design Group, Housing, and Medical.

Design Group Division (DCD)

(Tel: 210.536.3547/DSN 240.3547)

Plans/Guides

The *Air Force Fitness Center Master Plan* was completed in FY 2000. This world-wide survey of 188 facilities at 89 locations measured fitness facilities against standards established by the new *Fitness Center Design Guide*.

The Tri-Service Design Guidance Coordination Panel, tasked with achieving unified design guidance for military facilities, selected the *Air Force Interior Design Guide* and the *Fire Station Design Guide*, two documents developed by DCD, as the consensus standards for the three DOD service branches.

In partnership with the Environmental Quality Directorate and the Texas Pollution Prevention Partnership (TXP3), DCD continued to lead in sustainable construction with the *Green Base of the Future (GBOF) Guide*. The "beta test" for the guide was initiated at Dyess AFB, Texas. Furthermore, the division's *Environmentally Responsible Facilities Guide* was selected as the basic sustainable design document for the Unified Facility Criteria for the three military services.

Assistance Teams and Design Support

DCD fielded 35 ATs in FY 2000. One team product for Kelly AFB, Texas, Security Hill development was honored in a national forum with an American Planning Association Federal Planning Division award. In another initiative, the division teamed with the Air Force Office of Public Affairs to develop initial test applications of the service's new symbol at highly visible base entrance gates and water towers.

The division also partnered with Homestead Air Reserve Base, Florida, and Air Force Reserve Command as design agent for the Reserve's "green building" fire station. The design, which incorporated sustainable features, was completed within schedule and within budget, and received the highest possible Leadership in Energy and Environmental Design (LEED) certified rating. The construction contract was awarded to a small business contractor.



Earth Day

DCD attained spectacular results in organizing the Earth Day commemoration for AFCEE. One of the most successful activities was development of the AFCEE Earth Day 2000 Web site. The page contained announcements of events, a speaker's list, activity ideas, photos, links, and other informative and interesting information.

Housing Division (DCH) (Tel: 210.536.3496)



Exterior and interior views of a privatized housing unit at Lackland AFB, Texas.

Privatization

Demand for DCH support continues to grow rapidly in all product lines, but particularly in housing privatization. In this area, the division continued its efforts to achieve a reliable and effective business relationship with the private sector.

Increased demand for the division's privatization expertise is characterized by the Air Force's selection of DCH to develop six installation project information packages on privatization for FY 2001 projects. In the meantime, the division has expanded its staff to include a real estate legal counsel and contracting and financial expertise.

Also, DCH began developing a new Umbrella Indefinite Delivery Indefinite Quantity (IDIQ) Privatization Support Contract (PSC). This vehicle, which has a \$39 million contract ceiling, will provide as many as five consultants for privatization support for up to twenty-six installations. The PSC concept is currently being prototyped at Kirtland AFB, New Mexico, and Patrick AFB, Florida.

Master Plans/Military Construction (MILCON)

The Family Housing Master Plan (FHMP) continued its rigorous pace with the kickoff of the FY 2000 and 2001 master plans. In addition, in FY 2000 the General Officers' Quarters (GOQ) Master Plan, with a \$12 million contract ceiling, was initiated to study all 263 units in the Air Force.

Medical Division (DCM) **(Tel: 210.536.3382/DSN 240.3382)**

Medical Facilities

The Medical Division is at the forefront in replacing and improving Air Force medical facilities. In FY 2000, DCM completed and brought online eight new state-of-the-art medical treatment facilities, either as stand-alone clinics, as additions to, or renovations to existing hospitals and clinics. The division also completed the planning and started the design of seven other projects, which include medical clinics, dental clinics, and a new medical warehouse. The program work spans across thirty-four bases and seven major commands in the continental U.S.

Acquisition Innovations

DCM is one of several proponents of new and innovative facility acquisition methods. Through its active leadership in various forums in the Air Force and DOD medical facilities community, the division achieved a major breakthrough in the medical MILCON program by persuading customers, programmers, and agents alike to use the design-build contracting concept on more than just warehouses. As a result, 43 percent of the FY 2002 program will be accomplished using that concept, an increase of more than 200 percent over the methods normally used.

In addition, DCM is continuing the process to field a new approach to Air Force design-build known as Design-Build *Plus* (DB+). DB+ is a performance-based construction delivery method that is a variation of similar methods used by other government agencies and the private sector. Under this concept, two contractors, working under DCM oversight, team up to program, design, and construct a project. DB+ was created to leverage the government's shrinking workforce and maintain the number of facilities that are built on time, and do so within established budgets while meeting customer criteria and requirements. DB+'s objective is to ensure that planning, programming, design, construction, and project turnover are expeditious, continuous, and seamless from the customer's viewpoint.

The medical division shone brightly this past year as two of its projects were recognized for excellence in the Air Force Design Awards Program. The medical/dental clinic at Los Angeles AFB, California, received the Merit Award in the Concept Design category, and the Ambulatory Health Care Center at Davis-Monthan AFB, Arizona, received the Citation Award, also in the Concept Design category.



The award-winning designs for the medical/dental clinic at Los Angeles AFB, California (left) and the Ambulatory Health Care Center at Davis-Monthan AFB, Arizona (below).



DC's FY 2000 Program

These figures include the value of all ongoing work carried over from previous years as well as projects obligated in FY 2000. Project total for FY 2000 only was \$245,018,000.

11th Wing (Bolling AFB, Washington, D.C.)	\$30,020,000
Air Combat Command	296,210,000
Air Education and Training Command	304,960,000
Air Force Academy	1,500,000
Air Force Materiel Command	616,600,000
Air Force Reserve Command	3,540,000
Air Force Space Command	249,010,000
Air Force Services Agency	1,610,000
Air Mobility Command	273,860,000
ILE (Air Staff)	3,570,000
Pacific Air Forces	211,590,000
Special Operations Command	8,690,000
United States Air Forces Europe	2,440,000

Total	\$2,003,600,000
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Assistance Team Visits by the Design Group Division in FY 2000

Air Combat Command	8
Air Education and Training Command	3
Air Force Materiel Command	4
Air Force Space Command	2
Air Force Special Operations Command	2
Air Intelligence Agency	6
Air Mobility Command	3
Pacific Air Forces	4
United States Air Force Academy	2
United States Air Forces Europe	1

Total	35
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Regional Environmental Offices (REO)

AFCEE has Regional Environmental Offices in Atlanta (Eastern Region), Dallas (Central Region), and San Francisco (Western Region). These three REOs advocate the Air Force before local, state, regional, and federal authorities. Their duties include assisting major commands and bases with environmental issues; providing Air Force environmental leaders with updates and forecasts on environmental compliance status, trends, and problem areas; and managing all Air Force third party sites (TPS).

In addition, the REOs serve as the Department of Defense Regional Environmental Coordinator in Standard Federal Regions 2, 6 and 10 and as Air Force Regional Environmental Coordinator in all ten regions.

Eastern Region (CCR-A) **(Tel: 404.562.4205/Tollfree 888.610.7419)**

Regulatory Review

In FY 2000 the Eastern Region REO continued to provide its customers with quarterly regional updates of new and emerging state legislative and regulatory actions. The updates provide major commands and installations with a relevant summary of legislative and regulatory changes in a clear and concise newsletter format.

The REO monitors regulatory activity at the state and regions to identify current regulatory actions or unique regulatory interpretations. When a new trend is identified, the REO provides the major commands and installations with a two-page report called a Regulatory Alert, which serves as a “heads up” on potential regulatory enforcement actions.

Environmental Vulnerability Assessments

The Eastern Region REO provided the major commands and installations with Environmental Vulnerability Assessments (EVA), which are used in conjunction with the Air Force Environmental Compliance Assessment and Management Program (ECAMP). The EVA report identifies specific regulator concerns and makes specific recommendations so that organizations may be able to reduce their vulnerabilities to regulatory violations.

Partnering

The Eastern Region REO sponsored a number of very successful P2 and Installation Restoration Program Partnerships throughout the region in FY 2000. Partnerships foster good working relationships between Air Force installations and the regulatory communities. They have resulted in millions of dollars in cost avoidance by speeding up review times and reducing cleanup actions.

The Eastern Region REO currently is involved in eleven partnerships with individual states and a regional partnership in Region 4, which is a new initiative to promote information exchange among the eight states in the region. In addition, the office takes part in five Installation Restoration Program partnerships.

Central Region (CCR-D) **(Tel: 214.767.4650/Tollfree 888.610.7418)**

Compliance

The Central Region REO, through its data-collecting and reporting functions, continued to assist Air Staff in monitoring Air Force compliance with federal, state, and local environmental laws in FY 2000.

The office compiles the Air Force's semiannual Deputy Under Secretary of Defense for Environmental Security Data Call during which some 100,000 data records are collected and validated. Air Staff uses this information for analysis purposes and for reports to Congress and the Department of Defense. To facilitate this process, the Central Region REO teamed with AFCEE's Computer Systems Division to create an on-line data collection system into which all Air Force installations can enter their environmental compliance data. Called the Internet Data Call System, it allows users access to present and past data in a spreadsheet format. Currently, software is being evaluated to allow a more streamlined approach to running these reports. These and other improvements are continually being integrated, making the Internet Data Call System an integral tool to collecting consistent and reliable data.

Environmental Summits

The Central Region Office was host to two Air Force-Regulator Environmental Restoration Summits, which attracted about 84 representatives from the Environmental Protection Agency and state environmental regulatory agencies in regions 5, 6, 7, and 8. The meetings were considered a great success and very productive in terms of building consensus with the regulators.

Representation – Southwest Strategy (SWS)

The Dallas office serves as the DOD Regional Environmental Coordinator for Region 6 and is an active member of the Southwest Strategy (SWS) Regional Executive Committee, an organization that identifies and resolves regional environmental issues of common interest among federal, state, tribal, and local stakeholders in New Mexico and Arizona.

In FY 2000, Central Region Office staff members briefed SWS issues to DOD and Air Force senior leadership as well as to Arizona and New Mexico stakeholders, and other interested parties. The briefings focused on such concerns as range environmental activities and encroachment.

Partnering

The Central Region REO co-chaired several DOD/state pollution partnerships, including the award-winning Texas Pollution Prevention Partnership, and led or supported development of numerous partnerships in Regions 5, 6, 7, and 8.

In addition, the office co-chaired the Pollution Prevention Partnership Crossfeed Forum with the Texas Natural Resource Conservation Commission. The forum, which fosters exchange of information between P2 partnerships nationally, worked with Defense officials to make P2 partnership information available on the Defense Environmental Network and Information Exchange (DENIX) Web site.



Some members of the Texas Initiative-Environmental Partnering Group, the largest cooperative effort between federal agencies and a state, meet in the capital city of Austin for an annual workshop. Shown here are (from left) Texas Natural Resource Conservation Commission representatives Mark Vickery, Joe Vogel and Ann McGinley; AFCEE representatives Thom Rennie and Randy Tarbell; and Paul Lewis, also with TNRCC.



Western Region (CCR-S)

(Tel: 415.977.8881/Tollfree 888.324.9254)

Alaska Air Issues

Air issues in Alaska were a major part of the Western Region workload in FY 2000. For example, the REO provided environmental and legal support to Eielson AFB in the installation's negotiation of a Federal Facility Compliance Agreement and settlement of a notice of violation in the area of the clean air act. Parties to the agreement are the Air Force, EPA Region 10, and the Alaska Department of Environmental Conservation.

The proposed agreement will allow the base to use its present heating and power plant for a number of years while making improvements to bring it into compliance. During that time, regulators will participate in the process, thus avoiding assessment of fines associated with operating an out-of-compliance central-heat-and-power plant.

At Clear Air Force Station, the Western Region REO provided support in evaluating the installation's air program, including its Clean Air Act Title V permit and the recent Engineering and Environmental Assessment Study of the station's central-heat-and-power plant.

Assistance to Elmendorf AFB consisted of supporting the base's ENVVEST (Environmental Investment) Program as well as providing the 611th Air Support Group with technical assistance on air issues at remote sites.

Environmental Management System

The Western Region REO together with AFCEE's Environmental Quality Directorate assisted the 173rd Fighter Wing at Kingsley Field Air National Guard Base, Klamath Falls, Oregon, in preparing an application for an Oregon Green Permit, which is based on an installation's Environmental Management System (EMS). The major command review of the application was very complimentary and the installation's Environmental Management Office was given permission to forward it to the state for a completeness review. This is the first time that a regulatory agency has recognized an Air Force EMS.

The Western Region REO successfully facilitated the selection of the 15th Air Force commander at Travis AFB to be the Air Force liaison to the California Defense Retention and Conversion Council, which was sponsored by the governor and established by the state in November 1999. The purpose for DOD's involvement is to take advantage of the council as a forum for bringing service concerns on environmental regulation review and permit streamlining to the state. Council members also include members of the governor's cabinet, state legislative representatives, and local officials.

Financial Management and Mission Support (MS)

(Tel: 210.536.2319/DSN 240.2319)

Mission Support's major role is to provide internal assistance to the AFCEE product directorates. These include the areas of financial management, computer and communications, public affairs, multimedia, and human resources. The directorate's Computer Systems Division (MSC) offers a wide-range of services associated with implementing and maintaining the Air Force-wide Environmental Resources Program Information Management System (ERPIMS) and Air Force Environmental Geographical Information System (AEGIS) operations.

AEGIS

MSC worked with ERD and ERT to develop the ERPIMS Web-viewing tool. ERPIMS is the Air Force central repository for the storage of data from environmental projects at Air Force installations. It includes analytical chemistry samples, tests, and results as well as hydro-geological information, site/location descriptions, and monitoring well characteristics. AEGIS is a Web-enabled application with GIS components that provides querying, reporting, and visualization of spatial data within a standard browser interface. With AEGIS, AFCEE will leverage the existing technological infrastructure as well as integrate the power and performance of the Web. The first release of this application will be in early FY2001.



Senior systems engineer Rick Ray, a contractor representative working in the Computer Systems Division, keeps an eye on things in the Financial Management and Mission Support computer room.

GIS Assistance

MSC assisted the 15th Civil Engineering Environmental Squadron, Hickam AFB, in developing and implementing GIS tools so that the unit could use ERPIMS data from eleven Hawaii installations. The project required an in-depth review of that data to identify and correct disparate projection system data, data incompatibilities, missing data, and erroneous data.

Air Force-owned GIS tools were provided free of charge to the customer, and 15th Civil Engineering personnel and their contractors received training on use of these tools. Contractors also received training on the submittal process for spatial data and meta data in standard formats.

The same type of assistance was rendered to the 3rd Civil Engineering Environmental Squadron, which needed GIS tools to utilize ERPIMS data at Elmendorf AFB, Alaska. The data has been reviewed and errors or data gaps identified to the 3rd CES. Again, Air Force-owned GIS tools were reused without cost to the installation to support this effort. The initial phase of the work was completed in the fourth quarter of the year.

MMR

MSC is working with ERD and the Massachusetts Military Reservation Installation Restoration Program Office to develop a Web-based viewing tool for Land Fill One ERPIMS data. This is a redesign of the draft application developed approximately two years ago. The product is designed to give the public direct access to environmental data associated with the Landfill One plume.

MXT

In FY 2000 a team representing all the AFCEE directorates developed requirements for a centralized data system to store contract and project information. When completed, the Management, eXecution, and Tracking System (MXT) will provide AFCEE with a central location for project data from all its directorates.

Module II will be deployed in FY 2001. The system's two modules will support requirements for ER, MSR Cost/Schedule Analysts, EC, and EQ. MXT will enable executive management to have access to summary reports and will markedly enhance reporting to customers and internal coordination. Plans for future MXT use include customer access to MXT data via the Web. The first stage will involve placing reports from the system on the Internet.



Human Systems Center Environmental Contracting Division (PKV) (Tel: 210.536.6315/DSN 240.6315)

AFCEE receives contracting support from the 311th Human Systems Wing Environmental Contracting Division (PKV) and the Support Contracting Branch (PKOA) of the Human Systems Center at Brooks AFB. PKV provides contracting assistance for environmental studies, assessment, and remediation at Air Force installations worldwide. The division is made up of the Program Support, Base Restoration, and Base Closure branches. PKOA, on the other hand, supports AFCEE's Design and Construction Directorate in the areas of design, construction, and privatization contracting.

Contracting personnel are AFCEE resources co-located with the Center's technical staff, an arrangement that promotes responsiveness to customer needs and also reduces the time required to make changes and initiate process improvements. The contracting function as a whole provided unsurpassed worldwide support in FY 2000. Its primary tool is the Indefinite Delivery Indefinite Quantity contract with multiple pricing arrangements. This tool offers the flexibility customers need for effective mission accomplishment.



A building is brought down at the old Kotzebue Long-Range Radar Site during Operation Clean Sweep in Alaska.

A contract tailored to meet customer needs

PKV added another contract tool to the AFCEE toolbox by awarding a \$2.9 million Environmental Minor Construction and Repair Contract to Cape Environmental Inc., of Atlanta, to help bases with their small environmental projects. The pilot-type contract will cover a number of projects, including storm water systems repair, installation of pollution-prevention and waste-minimization equipment, asbestos removal, small spill cleanup, removal of lead-based paint, and others. These types of projects are normally done under a remedial action contract.

This construction and repair contract allows AFCEE to do compliance-related construction projects that currently do not fit well under other contract vehicles.

The contract, which is a response to customer requests for other types of construction activities related to compliance and pollution prevention, is now available to AFCEE customers throughout the United States. It is managed by PKV contracting officer Brenda Dillard. The Environmental Quality Directorate was involved in developing the contract's technical provisions.



An aerial view of the Kotzebue Long-Range Radar Site in Alaska.

Alaska Native Incentive Award

Jacobs Engineering Group received an incentive award of more than \$281,000 for subcontracting \$5.62 million worth of work to Arctic Slope Construction, Inc., and NANA Development Corporation, two Alaska Native firms involved in a project at Kotzebue Long Range Radar Site. The award was the first for an AFCEE prime contractor under the DOD Indian Incentive Program.

The program promotes major opportunities for Alaska Native organizations to participate in federal contracts. It provides that prime contractors who subcontract work to an Native American-owned organization may receive a cash award totaling 5 percent of the amount subcontracted.

The incentive award is the culmination of a three-year team effort. The technical component was led by Mr. Samer Karmi, ERD's Alaska restoration team chief. Mr. Edwin Custodio of PKV was the contracting officer.

The work at Kotzebue is part of the Operation Clean Sweep program along the remote Defense Early Warning (DEW) Line system in Alaska. It includes tearing down of old facilities, getting rid of heavy-duty trailers, removing asbestos and oil tanks, and cleaning contaminated soil. The project earned a 1999 Commander-in-Chief Installation Excellence Award in the Special Recognition category.

PKV Contract Actions by Unit in FY 2000 (in \$millions)

Branch	Number of Actions	Obligations
Program Support Branch (PKVA)	860	55.1
Base Restoration Branch (PKVB)	835	263.5
Base Closure Branch (PKVC)	532	111.3
Design and Construction Support Branch (PKOA)	224	83.8
Totals	2,451	\$513.7



some Final Notes

AFCEE's focus since it first opened its doors in 1991 has been on service and our relationship with our customers. That remains true today, ten years later. And although the mission is the same, the Center itself has changed - and for the better. AFCEE has sharpened its vision and broadened its scope in an ongoing effort to offer its customers the kinds of services they need, deserve, and expect.

The expertise and abilities the Center has developed in its first decade have not gone unnoticed by Air Force senior leaders. They have shown their confidence in our capabilities by entrusting us with new or enhanced responsibilities, such as in the areas of military family housing privatization and range sustainability, to give just two examples.

For our part, we expect the Center to continue to change as we adapt to customer needs, exploring new business lines and then establishing the contracting tools to support them - hopefully, before our customers ask. We are not a one-size-fits-all organization. Our goal, instead, is to find the contract tool that best fits specific project needs and that uses the resources of one of our top-notch contractors to get the job done. The Environmental Minor Construction and Repair contract and the Privatization Support Contractor that you read about in this report are two examples of innovative AFCEE contracts that can be tailored to a specific project need.

To summarize, we are confident, in this early stage of the 21st century, that we are prepared to handle any task, no matter how complex or demanding, that might be required of us in the years ahead. The successes and accomplishments that were showcased in this report are just a few examples of the Center's strengths and capabilities.

We hope that you will call on AFCEE for responsive environmental and engineering support. We never forget that our reputation, indeed our existence, is dependent on keeping our customers satisfied.

Appendix

AFCEE Contracts

AFCEE's full range of cradle-to-grave customer support would not be possible without the top-notch contractors that assist the Center's efforts to provide the major command and bases with the best available technical and professional services. This appendix contains an overview of AFCEE contracts, the services they render, the names of the prime contractors, and the AFCEE points of contact for each type of contract. Please contact the person or persons indicated for more information on a specific service or contract.

Worldwide Planning, Program and Design (3P+ and 3P-AE) Contracts

Contract specifics: Indefinite delivery/indefinite quantity (ID/IQ), time and material and firm fixed price; five year ordering period; ceiling of \$360 million for 3P+ and \$480 million for 3P-AE. No individual contract may exceed \$200 million.

Services provided: Preliminary assessment through remedial design, (Title I), expanded Title II and other architect-engineer services to support programs in locations worldwide. Title I services include all aspects of design such as preparation of contract plans, specifications, scheduling, cost estimates, and preparation of operating and design manuals. Title I efforts also encompass those efforts required to support and develop the design, including: planning and programming, program management; scoping, studies; investigations; evaluations; consultations; conceptual design; value engineering; and operation, monitoring and optimization of environmental treatment or control systems. Title II services include supervision, inspection, and oversight of environmental construction projects. Other A-E services include a full range of environmental management services necessary for the implementation of restoration, pollution prevention, compliance, and conservation environmental projects.

Prime contractors (3P+): CH2M Hill, Inc.; Montgomery Watson; Earth Tech, Inc.; URS Corporation; Dames & Moore; and TH & Associates.

Prime contractors (3P-AE): Montgomery Watson; Parsons Engineering Science, Inc.; Foster Wheeler Environmental Corp.; IT Corporation; Tetra Tech, Inc.; Jacobs Engineering Group, Inc.; CH2M Hill, Inc.; Black and Veatch Special Projects Corp.; Earth Tech, Inc.; URS Group, Inc.; Science Applications International Corp.; and Ellis Environmental Group, LC, an 8(a) contractor.

Point of Contact (POC): Mr. Cesar Silva, HQ AFCEE/ERB, DSN 240-5255; COMM 210-536-5255; FAX DSN 240-3609; Cesar.silva@hqafcee.brooks.af.mil.



Worldwide Full Service Remediation Contracts

Contract specifics: ID/IQ; program ceiling of \$475 million, firm fixed price; cost plus award fee; and cost plus fixed fee, five-year ordering period.

Services available: Remediation of any type, including containment, free product removal, low level radioactive waste removal, landfill capping, ground water remediation and control excavation, ordnance removal, and many other types of environmental cleanup work. Contact POCs for more information on specific projects.

Prime contractors: International Technology Corporation; Montgomery Watson; Groundwater Technology, Inc; Roy F. Weston, Inc.; Environmental Chemical Corporation; Cape Environmental Mgmt, Inc.; and Versar, Inc.

POC: Mr. Gerald Saulnier, HQ AFCEE/ERD, DSN 240-5201, COMM 210-536-5201, FAX DSN 240-9026; Gerald.saulnier@hqafcee.brooks.af.mil

Systems Engineering and Technical Assistance (SETA) Contract

AFCEE's SETA is a full-time resource that leverages the Center's workforce and supports virtually all of its programs. These include the programs noted in the SETA plus military family housing.

Contract specifics: ID/IQ; five-year ordering period; time and material and firm fixed price; Program ceiling of \$46 million.

Services provided: Special studies and analysis, cost, risk and feasibility analysis, technology demonstrations and workshops, acquisition support (includes statements of work, cost estimates, and proposal evaluation recommendations); document preparation and review; contractor monitoring and quality assurance oversight; and contractor deliverables review. Also, contaminant fate and transport and ground water flow modeling; site visits and staff assistance; and partnering and peer review support.

Prime Contractors: Universe Technologies, Inc. (UNITEC) and Informatics Corporation.

POC: Ms. Carol McCollum, program manager, HQ AFCEE/ERC, DSN 240-5234, COMM 210-536-5234 FAX DSN 240-3609, Carol.mccollum@hqafcee.brooks.af.mil

Environmental Minor Construction and Repair (EMCR) Contract

Contract specifics: ID/IQ; program ceiling of \$3 million, firm fixed price; 8(a) set-aside. See top of page 27 for specific services provided and contractor.

POC: Mr. Jonathan Haliscak, HQ AFCEE/EQT, DSN 240-5522, COMM 210-536-5522, FAX DSN 240-4254, jonathan.haliscak@hqafcee.brooks.af.mil.

Design and Construction Contracts

AFCEE contracts provide commands and installations with a variety of A-E services to advance installations excellence and Air Force quality of life through standards and criteria development, as well as execution of design and construction of a wide range of facility types, with emphasis on medical and military family housing.

Contract type: Mostly ID/IQs; mostly five-year ordering periods; firm fixed price; with contract ceiling and work type variations among the contracts as noted below.

Services provided: Vary among contractors and include design guides, handbooks/standards preparation; interior, facility, and landscape design documents; feasibility studies/project programming, 1391 development, and site surveys/reports; construction management services; planning studies, assistance teams, and cost estimating services; design/construction documents; energy/sustainability studies; housing community profiles, housing market analysis, and annual family housing master plan; and other related services.


Contractors and contract descriptions:

- Baker and Associates, Hellmuth Obata Kassabaum Inc. - five-year, regional ID/IQs for continental U.S. family housing projects; each with annual ceiling of \$1.5 million and \$500,000 delivery order limit;
- Baker and Associates/Group 70, Koonce Pfeffer Bettis - five-year ID/IQs, for Pacific and Alaska family housing contracts, respectively, each with \$1.5 million annual ceiling and \$500,000 delivery order limit;
- URS, Corp. - five-year worldwide construction management services ID/IQ (not limited to housing) with \$3 million annual ceiling and \$1 million delivery order limit;
- The Benham Group, 3D/International, Hellmuth Obata Kassabaum Inc - five year worldwide ID/IQs, each with a \$10 million ceiling or five year performance period, a \$5 million annual ceiling, and a \$1 million delivery order limit;
- Parsons Infrastructure and Technology Group - four-year worldwide housing ID/IQ for development of the annual Air Force Family Housing Master Plan with \$12 million annual ceiling with no limit on individual delivery orders;
- Avila Government Services - worldwide advisory and assistance privatization contract with a \$2.99 million program ceiling or three-year performance limit with no limit on individual delivery orders;

POCs: For military family housing privatization, Lt. Col. Rod Croslen (primary), HQ AFCEE/DCP, DSN 240.5506, COMM 210.536.5506, FAX DSN: 240.9004, rod.croslen@hqafcee.brooks.af.mil. Mr. Perry Potter (alternate), HQ AFCEE/DCP, DSN 240.3032, COMM 210.536.3032, FAX DSN 240.3498, perry.potter@hqafcee.brooks.af.mil.

POCs: For standards/criteria development, and design/construction of facilities other than military family housing, Mr. Boyce Bourland (primary), HQ AFCEE/DCD, DSN 240.5483, COMM 210.536.5483, FAX DSN 240.9004, boyce.bourland@hqafcee.brooks.af.mil.

Mr. Mikeual Perritt (alternate), HQ AFCEE/DCD, DSN 240.3547, COMM 210.536.3547, FAX DSN 240.9004, mikeual.perritt@hqafcee.brooks.af.mil



POCs: For non-privatized military family housing and medical, Ms. Linda Hansen, (primary), HQ AFCEE/DCM, DSN 240.3382, COMM 210.536.3582, FAX DSN 240.9004, linda.hansen@hqafcee.brooks.af.mil. Mr. Eugene DeRamus (alternate), HQ AFCEE/DCM, DSN 240-3553, COMM 210.536.3553, FAX DSN 240.9004, eugene.deramus@hqafcee.brooks.af.mil.

AFCEE continues to add new contracting tools as part of its constantly evolving effort to enhance customer support. The following are brief descriptions of contracts that were recently awarded or will soon be brought on line.

Recent Contracts

- One professional planning services ID/IQ, firm fixed price contract with \$12 million annual ceiling (no delivery order limit). Worldwide services provided by Parsons Engineering.
- Jones Lang LaSalle, Ernst & Young, Basille Baumann & Prost Associates, PSC Military - five-year ID/IQs, all Privatization Support Contracts developed by the Air Force Center for Housing Privatization to provide start to finish full capability support for the life of a military family housing privatization projects. These four contracts with a fifth small business set a-side (to be awarded in late Feb 01) will share a program ceiling of \$39 million with capacity to support 26 candidate installations.

Future Contracts

- Five-year ID/IQ environmental remediation and construction (ENRAC) contract with estimated \$780 million program ceiling.
- Five-year ID/IQ global engineering, integration, and technical assistance (GEITA) contract with estimated \$150 million program ceiling.
- Environmental minor construction and operation services (EMCOS) contract. This five-year ID/IQ contract will have an estimated \$25-\$45 million ceiling.
- Five-year ID/IQ design-build plus (DB+) IDIQ developed by the Design and Construction Directorate MILCON Division with an estimated \$350 million program ceiling split between military family housing and light commercial facilities.



